PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-008463
(43)Date of publication of application : 12.01.2001

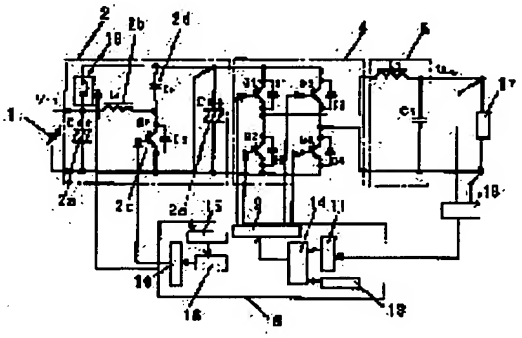
(51)Int.Cl. H02M 7/48

(21)Application number : 11-167894
(22)Date of filing : 15.06.1999

(71)Applicant : MATSUSHITA ELECTRIC IND CO LTD
(72)Inventor : KITAIZUMI TAKESHI
SUMIYOSHI SHINICHIRO
OKUDE TAKAAKI
OHASHI MASAHARU
IZAKI KIYOSHI
SADAHIRA TADASHI
SATO TAKETOSHI
OMORI HIDEKI

(54) SYSTEM LINK INVERTER DEVICE WITH AUTONOMOUS OPERATION FUNCTION

(57)Abstract:
PROBLEM TO BE SOLVED: To improve input/output conversion efficiency at an autonomous operation by providing a switching means shorting the positive terminal of a filter capacitor in the input stage of a booster converter and the positive terminal of a capacitor in an intermediate stage at autonomous operation.
SOLUTION: A system link inverter device with autonomous operation function is provided with a booster converter 2 boosting input voltage from a DC input power 1, an inverter 4 generating the AC current of a sine wave, which is synchronized with a power system from the boosted voltage, and an output filter 5. An output voltage detecting means 18 and a switching means 19 are installed. When the voltage of input power 1 is not less than about DC 145 V when the power of AC 100 V is supplied to a load 17 at autonomous operation, a booster switching element 2c is not operated and power is supplied to the inverter 4, while the boosting operation is not executed. Power loss in a DC reactor 2b and a booster diode 2d can be reduced, by setting the switching means 19 to an on state.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or

application converted registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]